UMETCO MINERALS CORP GENERATOR NAME

.0028

.004

MET

PAGE TOTALS

#### BARNWELL WASTE MANAGEMENT FACILITY Operated by CHEM NUCLEAR SYSTEMS, INC

CONTINUATION SHEET

USE THIS NUMBER ON VOLUME ALLOCATION NO ALL CONTINUATION PAGES

L.S.A

012 KMDA KMDA

028

(21) CHEMICAL (28) (29) DISPOSABLE CONTAINER (19) (2.°) WAS TE DESCRIPTION (°1) WASTE (25) STARLLITY SPECIAL (26) SOURCE (27) DISPOSABLE (17) RADIO (18) DOT SUBTYPE LABELS/ MARKINGS RADIATION LEVELS CONTAMINATION FISSILE CLASS FERCENT OF ACTIVELY : PHYSICAL LONITABLER FORM CLASS IS TO NOULEAR MATERIAL CONTAINER CONTAINER TYPE CONTAINER, (LT) ACTIVITY EACH EACH NUCLIDE FORM POSEVO (A1 A2 LSA etc.) USED NAME A . OF VOLUME LMETER CONTAINER CLASS MATERIAL (pounds) WEIGHT SURFACE EACH X maria (pounds) (DPM7100: m2) UM-8A CONTAINLR (grains) AGEN! Alpha Beta Choin .032 017 Knda' (mda N/A Radioactive - LSA .0028 Solid N/A 0.1 5272 65 Stc LSA U238 Radioactive— TH232 .004 **3**04 KMDA KMDA 0.1 5192 65 Stc 034 LSA Radioactive - LSA .0028 128 U238 CONTAMINATED SOBILIDING RUBBL PLANT HARDWARE Radioactive -TH232 .004 октрЕ Radioactive -- J.S.A. U238 .0028 0.15324 65 Stc 040 LO14 KMDA SMDA LSA N/A 129 Radioactive — TH232 .004 5120 046 014 KMDA (MDA LSA N/A Radioactive— L.S.A. 130 U238 .0028 0.165 Stc Radioactive-TH232 .004

0.1

5310

26218

325

0.5

65

Stc

Form No CNS 201 (9-83)

DISPOSAL SITE COPY

Radioactive- LSA

Radioactive—

Radioactive-Radioactive --Radioactive --Radioactive — Radioactive-Radioactive--Radioactive — Radioactive--Radioactive --Radioactive-Radioactive-Radioactive-Radioactive-Rad-pactive— Radioactive-Radioactive --Radioactive --Radioactive-Radioactive-Rad:oactive-

Ē;

132

U238

TH232

| (1) GENERATOR NAME <u>UMETCO MINERALS CORP</u> ADDRESS <u>137 - 47th Street</u>  | Operated by  | CHEM NUC<br>5, Barnwell,<br>(803) 259 | CLEAR SYS<br>South Car<br>9 1781 | STEMS, IN<br>olina 298                                   | NC<br>312   | Υ   | i  |   |  |   | issouri 6<br>ATE 8 <u>-22-8</u>                           | 4801 '  |
|--|--|---------------------------------------|----------------------------------|--|---|---|--|---|--|---|---|---|
| CITY Niagara Falls STATE New   | York   |                                       |                                  |  |   |   | SHIPME   | NT TYPE _   | Van SHIP   | MENT SURFA  | CE EXPOSURE   | mR/hR   |
| CONTACT G E Walck PHONE (716)278-3   | 361_   |                                       |                                  |  |   |   | SHIPME   | NT NO <u>61</u>   | 5-3004_ ı  | LINER SERIAL  | NO  |   |
| (2) consigned to<br>CHEM NUCLEAR SYSTEMS INC<br>P O BOX 726 OSBORN ROAD<br>BARNWELL S.C. 29812   | (3) USE THIS NUMBER ON<br>ALL CONTINUATION PAGES                       | VOLUME AL<br>0884-32                  | LOCATION I                       |  | PAGE<br>OF  |   | DRIVER   | SIGNATURI   |  |   | DATE  | 8-22-84   |
| ISS TOTAL FOR PROPER SHIPPING NAME   | & HAZARD CLASS   | ID NUMBER                             | (6)                              |  | SH  | HPMENT  | TOTALS   |   |  |   | (7) 1   | OTAL SNM  |
| LACH CLASS (PER 49 CFR 1   | 72 101)  |                                       | VOLUME                           | TOTAL  |   |   | TIVITY (10Cf   |   |  | SOURCE  | ISOTOPE   |   |
| PACKAGES (Founds):   Radioactive Material, empty packages  |  | UN2908                                | (Cubic<br>Feet)                  | NO OF<br>PACKAGES  | ALL   | TRITIUM   | C 14   | 1c 99   | 1129   | (Pounds)  | U 233   | N/A   |
| Radioactive Material, fissile, n o s —Radioactive   5   26218 Radioactive Material, low specific activity, n o s -   | Material   | UN2918<br>UN2912                      | 325                              | 5  | 034   | NP  | NP   | NP  | NP   | 0.5   | U 235   |   |
| Radioactive Material, n o s —Radioactive Material Radioactive Material, limited quantity, n o s —Ra  | l  | UN2982<br>UN2910                      |                                  | 1  | 034   | NP  | NP   | INF   | MF   | 103   | TOTAL   |   |
| Radioactive Material, inflict quantity, nos—Radio Radioactive Material, instruments and articles—I Other (Specify)   | active Material  | UN2911<br>UN2911                      | (8)<br>TOTAL F<br>VOLUME         | ALLET  | N/A   |   |  |   |  |   |   |   |
| Contaminated Soil  | (10) PHYSICAL FORM/<br>SOLIDIFICATION AGENT SO                         | lid                                   |                                  |  |   | 0 % <b>OF</b> C                                 | HELATING   |   | Metal (  |   |   | STE FORM CLASS<br>A 🗇 B 🗇 C   |
| (13) ( ) Yes ( ) No THIS VEHICLE IS CONSIGNED EXCLUSIVE US ACCOMPLISHED BY CONSIGNOR OR CONSIGN (14) IMPORTANT This is to certify that the above named materials are and labeled, and are in proper condition for transportation according Transportation. | NEE OR HIS DESIGNATED AGENT e properly classified, described, packaged | l marked                              | of I<br>Ma<br>arr<br>ma          | ow level rac<br>terial Licer<br>ended and<br>de that the | lioactive was<br>se No 097<br>the effective<br>inspection | iste has b<br>7 as ame<br>re Barnwe<br>revealed | een inspe<br>ended and<br>ell Site Disp<br>no itenis | cted in acco<br>d the Nuclo<br>oosal Criteria<br>of non com | ordance with<br>ear Regulato<br>a within 48 ho<br>pliance with | the requirem<br>ry Commissions or spring to structure the structure of the st | ents of South Cons. License Napment and fuel laws rules a | that this shipment<br>Carolina Radioactive<br>lo 12 13536 01 as<br>inther certification is<br>not regulations |
| Signature  |  |                                       |                                  |  |   |   |  |   |  |   | o Mineral   | e Corn  |
| Company Umetco Minerals Corporation  | Date 8-22-8  | 4                                     |                                  |  | (716) -2  |   |  | ı <u>super</u>  | ncenaem  | L Onecc   | <u>.o r</u> innera  | .5 0019   |
|  |  | CNSI US                               |                                  | ,,   | /110  |   |  | 777   | ///  | ///   | 777   |   |
| ☐ This material meets all license requirements   |  |                                       |                                  |  |   |   |  |   |  |   |   |   |
| ☐ This material was disposed of in accordance with license   |  |                                       |                                  |  | Arrival Date  | e   |  |   | _ Ar   | rıval Survey N  | lo  |   |
| ☐ Discrepancy  |  | DISPOSAL                              | SITE COP                         |  | Date/Time   | Buried  |  |   | _ н  | P Initial   |   |   |
|  |  | Form No (                             |                                  |  | Trench No   |   |  |   | Lo   | cation Code   | <del></del>   |   |
|  |  | (9-8                                  | 3)                               |  | Waste Clas  | s Code  |  |   |  |   |   |   |
| Date   | s  | SEE INSTRUCTIONS<br>FOR FILLING OU    | ON REVERSE SIL<br>IT THIS FORM   | DE   |   |   | <del>.</del>   |   | Pe   | rsonnel Expo  | sure  |   |
| A. Aborem of Computers   | Title  |                                       |                                  |  |   |   |  |   |  |   |   |   |

| (1) GENERATOR NAME <u>UMETCO MINERALS CORP.</u> ADDRESS <u>137 - 47th Street</u>  | P 0 Box 72                                    | ASTE MAI<br>CHEM-NUC<br>6, Barnwell,<br>(803) 259 | LEAR SYS<br>South Car<br>1-1781 | STEMS, IN<br>olina 298                     | NC<br>312   | Γ <b>Υ</b>                            |  |  |   | Joplin, Mi                           |  |  |
|---|---|---|---------------------------------|--|---|---------------------------------------|--|--|---|--------------------------------------|--|--|
| CITY Niagara Falls STATE New  |   |   |                                 |  |   |                                       | SHIPME                                 | NT TYPE _                                | <u>Van</u> SHI                              | PMENT SURFA                          | CE EXPOSURE  | 034 mR/hR  |
| CONTACT G. F. Walck PHONE (716)278-33   | 61  |   |                                 |  |   |                                       | SHIPME                                 | NT NO <u>61</u>                          | 5-3004                                      | _ LINER SERIAL                       | NO   |  |
| (2) consigned to CHEM NUCLEAR SYSTEMS, INC P O BOX 726, OSBORN ROAD BARNWELL, S C 29812   | (3) USE THIS NUMBER ON ALL CONTINUATION PAGES | VOLUME AL   |                                 | 10   | PAGE _<br>OF _  |                                       | DRIVER                                 | SIGNATUF                                 | E <i>BL-1</i>                               | Bandh a                              | DATE_  | R_22_84  |
| (5) TOTAL FOR PROPER SHIPPING NAME  |   | ID NUMBER   | (6)                             |  | S   | HIPMENT                               | TOTALS                                 | _  |   |                                      | (7) T  | OTAL SNM   |
| REACH CLASS (PER 49 CFR 17  | (2 101)                                       |   | VOLUME                          | TOTAL                                      |   |                                       | TIVITY (10CF                           |  |   | SOURCE                               | ISOTOPE  |  |
| PACKAGES (Pounds) Radioactive Material, empty packages  |   | UN2908  | (Cubic<br>Feet)                 | NO OF<br>PACKAGES                          | ALL   | TRITIUM                               | C 14                                   | Tc 99                                    | 1 129                                       | (Pounds)                             | U 233  | N/A  |
| Radioactive Material, fissile, n o s — Radioactive M  S 26218 Radioactive Material, low specific activity, n o s —  |   | UN2918<br>UN2912                                  | 325                             | 5  | ISOTOPES  |                                       | <del></del>                            | -  |   |                                      | U 235  |  |
| Radioactive Material, n o s — Radioactive Material  |   | UN2982  | 323                             |  | .034  | NP                                    | NP                                     | NP                                       | NP  | 0.5                                  | TOTAL  | W  |
| Radioactive Material, limited quantity, n o s —Rad  |   | UN2910  | (8)                             |  |   |                                       |  |  |   |                                      |  |  |
| Radioactive Material, special form, n o s —Radioa Radioactive Material, instruments and articles—R  |   | UN2974<br>i UN2911                                | TOTAL P                         |  | N7 / A  |                                       |  |  |   |                                      |  |  |
| Other (Specify)   | adiodelive indenti                            | <u> </u>  | VOLUME                          | (CU FT)                                    | N/A   |                                       |  |  |   |                                      |  |  |
| (13) (X) Yes ( ) No THIS VEHICLE IS CONSIGNED EXCLUSIVE USE ACCOMPLISHED BY CONSIGNOR OR CONSIGN  (14) IMPORTANT "This is to certify that the above-named materials are and labeled, and are in proper condition for transportation according Transportation  Signature | properly classified, described, packaged      | d, marked   | of I<br>Ma<br>am<br>ma          | ow level rac<br>terial Licen<br>ended, and | lioactive wa<br>se No 09<br>the effective<br>inspection | aste has bo<br>7 as ame<br>ve Barnwel | een inspe<br>nded, and<br>II Site Disp | cted in acc<br>d the Nuc<br>oosal Criter | ordance wit<br>ear Regulat<br>a within 48 l | h the requirement<br>tory Commission | ents of South C<br>n's License N<br>ipment, and fu | that this shipment<br>farolina Radioactive<br>o 12 13536 01 as<br>rther certification is<br>nd regulations " |
| Company Umetco Minerals Corporation   | Date 8-22-8                                   | 4   |                                 |  |   |                                       |  | <u>Super</u>                             | Intender                                    | it - Umetc                           | <u>o Mineral</u>                                   | s Corp.  |
|   |   | CNSI USE  |                                 | ephone No                                  | (716) -2  | 78-336                                |  |  |   | 7//                                  |  |  |
| ☐ This material meets all license requirements  |   |   |                                 |  |   |                                       |  |  |   |                                      |  |  |
| ☐ This material was disposed of in accordance with license  |   | Transition  |                                 |  | Arrıval Dat   | e                                     |  |  | A   | arrıval Survey N                     | 0  | <del></del>  |
| Discrepancy   |   | TRIPLICA  | ATE COPY                        |  | Date/Time   | Buried _                              |  |  | _ ⊦   | I P Initial                          | · .  | <u>_</u>   |
|   |   | Form No C   | NS-201                          |  | Trench No   |                                       |  |  | L   | ocation Code                         |  |  |
|   |   | (9-8  | 3)                              |  | Waste Clas  | ss Code                               |  |  |   |                                      |  |  |
| Date  |   | SEE INSTRUCTIONS OF FOR FILLING OUT               |                                 | E  |   |                                       |  |  | P   | ersonnel Expos                       | ure  |  |

UCCNHT0001885

each

GENERATOR NAME UMETCO MINERALS CORP.

### BARNWELL WASTE MANAGEMENT FACILITY Operated by CHEM-NUCLEAR SYSTEMS, INC

USE THIS NUMBER ON VOLUME ALLOCATION NO ALL CONTINUATION PAGES

PAGE 2 OF 2

#### CONTINUATION SHEET

| (16)<br>ITEM<br>NO<br>U] 1–8A | (17)<br>RADIO<br>NUCLIDE<br>EACH<br>CONTAINER   | (18) PERCENT OF ACTIVITY EACH NUCLIDE | (19)<br>ACTIVITY<br>EACH<br>CONTAINER<br>(mC1) | (20)<br>PHYSICAL<br>FORM                         | (21) CHEMICAL FORM AND NAME & % OF CHELATING AGENT | (22)<br>WASTE<br>DESCRIPTION | (23)<br>WASTE<br>FORM<br>CLASS | CLASS (S U                                       | (25)<br>SPECIAL<br>NUCLEAR<br>MATERIAL<br>(grams) | (26)<br>SOURCE<br>MATERIAL<br>(pounds) | (27)<br>DISPOSABLE<br>CONTAINER<br>WEIGHT<br>(pounds) | (28)<br>DISPOSABLE<br>CONTAINER<br>VOLUME<br>(Cu Ft) | (29)<br>CONTAINER<br>TYPE | (3<br>RADIATION<br>CONTAINER<br>SURFACE<br>D mR/HR<br>TO R/HR | LEVELS_  | CO<br>CDP    | (31)<br>TAMINATION<br>DNT AINER<br>SURFACE<br>M/100cm2)<br>Beta Gamma | (32)<br>DOT<br>SUBTYPE<br>(A1 A2<br>LSA etc) | (33)<br>FISSILE<br>CLASS                         | (34)<br>LABELS/<br>MARKINGS<br>USED |
|-------------------------------|---|---------------------------------------|--|--|--|------------------------------|--------------------------------|--|---|--|---|--|---------------------------|---|--|--------------|---|--|--|-------------------------------------|
| 127                           | <u> </u>  | <u>N/A</u>                            | 3 0 10 0                                       | <u>Salad</u>                                     | 1  |                              |                                | 11   | N/A   | 0.1                                    | 5272  | -65  | Stc-                      | .032  | 017  | (MDA         | < MD∀   | 1 CA   | M/A  | Radioactive— T C A                  |
|                               | <u>ru232                                   </u> | -                                     | <u> </u>                                       |  | <u> </u>   |                              | _                              |  |   | ļ                                      |   |  | <del> </del>              | <del> </del>  | <del>i.</del>                                    |              | 1   |  |  | Radioactive —                       |
| 128                           | 11.538  |                                       | 0028   | <del> </del>                                     |  | <u> </u>                     |                                |  |   | 0.1                                    | 5102  | 65   | Sto                       | .03/  | 015  | (MDV         | ( MDA   | LSA  | X1 / A   | Radioactive— T C A                  |
|                               | TH232   | 1                                     | 1004   |  | J  | R B I                        | <del>-   !!</del>              |  | 1 -   |  |   |  |                           | ` .   |  | -            | ,   |  |  | Radioactive-                        |
| 120                           | 11538   |                                       | 10038  |  | Ä.   | I EI<br>FUE                  |                                |  | 1 1   | 0.1                                    | 5324  | 65   | Ctc                       | .040  | 01/  | MMA          | < MDA   | LSA  | N/A-   | Radioactive-rcA                     |
|                               | TH232   |                                       | .004   |  | II   | R                            | _                              | <u> </u>   |   |  |   |  |                           |   |  | ļ            |   |  |  | Radioactive—                        |
| 130                           | U238  | !                                     | 10028  |  | ζO   | H                            |                                |  |   | 0.1                                    | 5120  | -65  | Sto                       | .946  | 014  | KMDA         | (MDA  | TCA  | N/A  | Radioactive— T C A                  |
|                               | TH232   |                                       | .004   |  | ӈ  | AD<br>T                      |                                |  | <u> </u>  |  |   |  |                           |   |  |              |   |  |  | Radioactive—                        |
| 122                           | 11.0.00   |                                       | იიაი   |  | 7.1.   | II A                         |                                | <u>                                     </u>     |   | 5                                      | E210  | 65   | Sto                       | .028  | 012  | CAMDA        | <- market   | TCA  | N/A  | Radioactive— T C A                  |
|                               | กนาวา   | <u> </u>                              | 2010   |  | М  | CC<br>BU<br>PT               | 4                              |  |   | U                                      | 2220  | 05   | 000                       | .020  | V  | 1.0071       |   |  |  | Radioactive—                        |
|                               |   |                                       | )  |  |  |                              | <b>V</b>                       |  |   |  |   | (  |                           |   |  |              |   |  |  | Radioactive—                        |
|                               |   |                                       |  |  |  |                              |                                |  |   |  |   |  |                           |   |  |              |   |  |  | Radioactive—                        |
|                               |   |                                       |  |  |  |                              |                                |  |   |  |   |  |                           |   |  |              |   |  |  | Radioactive—                        |
|                               |   |                                       |  |  |  | · · ·                        |                                |  |   |  |   |  |                           |   |  |              |   |  |  | Radioactive—                        |
|                               |   |                                       | 1  |  |  | •••                          |                                |  |   |  |   |  |                           |   | Ĭ  |              |   |  |  | Radioactive-                        |
|                               |   |                                       |  |  | ,  |                              |                                |  |   |  | ,   |  |                           |   |  |              |   |  |  | Radioactive—                        |
|                               |   |                                       |  |  |  |                              |                                | ,  |   |  | ,   |  |                           |   |  |              | 1   |  |  | Radioactive—                        |
|                               |   |                                       |  |  |  | **************************** |                                | †  | 1   |  |   |  |                           |   |  |              |   | -  |  | Radioactive—                        |
|                               |   |                                       |  |  |  |                              |                                |  | <del></del>                                       |  |   |  |                           |   |  |              |   |  |  | Radioactive—                        |
|                               |   |                                       | <b>5</b>                                       |  |  |                              |                                |  | -   |  |   |  |                           | 7   |  | 1            | ,   | †  | ,  | Radioactive—                        |
|                               |   |                                       | <del></del>                                    | <del>                                     </del> |  |                              | _                              |  | <del> </del>                                      |  |   | ,  | 1                         |   |  | 1            |   |  |  | Radioactive—                        |
|                               |   |                                       |  | <del> </del>                                     |  |                              | -                              | <del>                                     </del> | <del> </del>                                      | <u> </u>                               |   |  |                           |   |  |              |   |  |  | Radioactive—                        |
| -                             |   |                                       |  | <del> </del>                                     |  |                              |                                |  | -   | <del> </del>                           |   |  |                           |   |  | +            |   | <u> </u>                                     |  | 'Radioactive—                       |
|                               |   | ~                                     | ***************************************        | <del> </del>                                     |  |                              | -                              |  | -   | <del> </del>                           |   |  | <del> </del>              | ļ   | <u> </u>   | 1            | <del>                                     </del>                      | <u> </u>                                     |  | Radioactive—                        |
| -                             |   |                                       |  |  |  |                              |                                |  | <del> </del>                                      |  |   |  |                           | <del></del>   | <del>                                     </del> | +            | <u> </u>  | -  |  | Radioactive—                        |
|                               |   |                                       |  | <del> </del>                                     | -  |                              |                                |  | -   |  | <del>                                     </del>      |  |                           |   | <del> </del>                                     | +            | <del>                                     </del>                      | <del> </del>                                 | <del>                                     </del> |                                     |
|                               |   |                                       |  | <del> </del> -                                   |  |                              |                                | <del> </del>                                     | <del> </del>                                      | ļ                                      |   | _  | <del> </del>              |   |  |              |   |  | <del> </del>                                     | Radioactive—                        |
|                               |   |                                       |  |  |  | <del> </del>                 |                                | +  |   | <u> </u>                               | <del> </del>  |  | <u> </u>                  | <del> </del> -  | <del> </del>                                     |              |   | <del> </del>                                 | -  | Radioactive—                        |
|                               |   |                                       |  | <del> </del>                                     |  | **                           |                                | -  |   |  |   |  | <del> </del>              | <del>                                     </del>              |  | <del> </del> |   | <del></del>                                  | -  | Radioactive—                        |
| ļ                             |   |                                       |  | <del> </del>                                     |  |                              |                                |  |   | <u></u>                                |   |  | ļ                         |   |  |              |   | <del> </del>                                 | <del></del>                                      | Radioactive—                        |
| ļ                             |   |                                       | <del></del> -                                  | <u> </u>   |  | -                            |                                | <u></u>  | 4   | <del> </del>                           | <del> </del>  |  |                           | L   | +  | <del></del>  | <u>'</u>  |  |  | Radioactive—                        |
|                               | ]   |                                       |  | ]  |  | PAGE TOTALS                  |                                |  |   | 0.5                                    | 26218   | 325  |                           |   |  |              | ,   |  |  |                                     |

Form No CNS 201 (9-83)

UCCNHT0001886

**CUSTOMER'S COPY** 

1 # () %.

o and the

holiji.

•

•

Allik •

\_

| (1) GENERATOR NAMEUMETCO MINERALS CORP.  ADDRESS 137 - 47th Street  | P O Box 72  | ASTE MA<br>CHEM-NU(26, Barnwell,<br>(803) 25<br>FIVE SHIPME | CLEAR SYS<br>South Card<br>9-1781                        | TEMS, II<br>olina 298   | NC<br>312   | ΓΥ           |  |   |  | Joplin, Mi<br>SHIPPING DA  | ssourı 648<br>TE 8 <u>-22-84</u>   | 01  |
|---|---|---|--|---|---|--------------|--|---|--|--|--|---|
| CITY Niagara Falls STATE New  | York  |   |  |   |   |              | SHIPMEN  | NT TYPE   | Van SHIP   | MENT SURFAC  | E EXPOSURE   | mR/hR   |
| CONTACT G.E. Walck PHONE (716)278-3   | 361   |   |  |   |   |              | SHIPMEN  | NT NO <u>61</u>   | 5-3004   | LINER SERIAL   | NO   |   |
| (2) consigned to<br>CHEM-NUCLEAR SYSTEMS, INC<br>P O BOX 726, OSBORN ROAD<br>BARNWELL, S C 29812  | (3) USE THIS NUMBER ON ALL CONTINUATION PAGES   | VOLUME AI<br>0884-32  | LOCATION N   | 10  | PAGE _<br>OF _  |              | DRIVER S   | SIGNATURI   | E  |  | DATE <u>8</u> -  | -22-84  |
| (5) TOTAL FOR PROPER SHIPPING NAME  | & HAZARD CLASS  | ID NUMBER   | (6)  |   | S   | HIPMENT      | TOTALS   |   |  |  | (7) TOT  | AL SNM  |
| FACH CLASS (PER 49 CFR 1  | .72 101)  |   | VOLUME   | TOTAL   |   | AC           | CTIVITY (10CFF<br>Curies (ElsA   |   |  | SOURCE   | ISOTOPE  | GRAMS   |
| PACKAGES (Pounds) Radioactive Material, empty packages  | Metacal   | UN2908<br>UN2918  | (Cubic<br>Feet)  | NO OF<br>PACKAGES   | ALL   | 1RITIUM      | C 14   | Tc 99   | 1129   | (Pounds)   | U 233  | N/A   |
| Radioactive Material, fissile, n o s — Radioactive  5 26218 Radioactive Material, low specific activity, n o s —  | -Radioactive Material   | UN2912  | 325  | 5   | .034  | NP           | NP   | NP  | NP   | 0.5  | U 235  | +   |
| Radioactive Material, n o s —Radioactive Material Radioactive Material, limited quantity, n o s —Ra Radioactive Material, special form, n o s —Radio Radioactive Material, instruments and articles—  | dioactive Material active Material  | UN2982<br>UN2910<br>UN2974<br>UN2911                        | (8)<br>TOTAL P   | ALLET   | · ·   | <u> </u>     |  |   |  | <u> </u>   | 1.0.775  |   |
| Other (Specify)  Contaminated Soil  (9) WASTE DESCRIPTION Misc. Debris  (13) (14) Yes ( ) No THIS VEHICLE IS CONSIGNED EXCLUSIVE US ACCOMPLISHED BY CONSIGNOR OR CONSIGNOR OR CONSIGNED EXCLUSIVE US ACCOMPLISHED BY CONSIGNOR OR | (10) PHYSICAL FORM/ SOLIDIFICATION AGENT SOLIDIFICATION AGENT SOLIDIFICATION AGENT SOLIDIFICATION AGENT BOLIDIFICATION AGENT  E properly classified, described, package on the applicable regulations of the Depote the applicable regulations of the Depote Bolidification and the | olld<br>E<br>ed, marked<br>partment of                      | (15) "Cert<br>of lo<br>Mat<br>amo<br>mac<br>Dat<br>Title | tification is ow level raterial Licerended, and de that the e 8-2 e and Organ ephone No | CHEMICA<br>NAME AN<br>hereby ma<br>dioactive w.<br>nse No 09<br>the effection<br>nispection<br>2-84 | D % OF Const | HELATING South Carol peen inspecended, and ell Site Disp I no items of | ina Departr<br>cted in acco<br>I the Nucle<br>osal Criteria<br>of non com | ordance with<br>ear Regulate<br>a within 48 h<br>ipliance with | th and Environm<br>in the requireme<br>ory Commission<br>iours prior to shi<br>in all applicable | (12) WAST  inental Control the ents of South Carn's License No pment, and furth laws, rules and  inental Control the ents of South Carn's License No pment, and furth laws, rules and the ents of Minerals of Minerals | olina Radioactii<br>12 13536 01 a<br>ner certification<br>regulations " |
| <ul> <li>☐ This material meets all license requirements</li> <li>☐ This material was disposed of in accordance with license</li> </ul>  |   |   | CITE CODY  |   | Arrıval Dat   | te           |  |   | Ar   | rrıval Survey No   | )  |   |
| ☐ Discrepancy   |   | DISPOSAL  | SHE COPY   | ,   | Date/Time   | e Buried     |  |   | Н  | P Initial  |  | <del></del>   |
|   |   | Form No (   |  |   |   |              |  |   | _  |  |  |   |
| Date  |   | SEE INSTRUCTIONS FOR FILLING OU                             |  | E   | Waste Clas  | ss Code      |  |   |  |  | ure  |   |
| Authorized Signature  | Title   | TON FIELING OF  | J. HIIO CORIWI   |   |   |              |  |   |  |  |  |   |

UCCNHT0001887

# UCCNHT0001888

#### UMETCO MINERALS CORP. GENERATOR NAME \_

#### BARNWELL WASTE MANAGEMENT FACILITY Operated by CHEM-NUCLEAR SYSTEMS, INC

## 

#### CONTINUATION SHEET

| (16)<br>ITEM<br>NO<br>UM-8 <b>4</b> | (17)<br>RADIO<br>NUCLIDE<br>EACH<br>CONTAINER | (18) PERCENT OF ACTIVITY EACH NUCLIDE | (19)<br>ACTIVITY<br>EACH<br>CONTAINER<br>(mCi) | (20)<br>PHYSICAL<br>FORM                         | U21)<br>CHEMICAL<br>FORM AND<br>NAME & W OF<br>CHELATING<br>AGENT | (22)<br>WASTE<br>DESCRIPTION | (23)<br>WASTE<br>FORM<br>CLASS | (?)<br>STAB<br>CLASS | at tiy      | (25)<br>SPECIAL<br>NUCLEAR<br>MATERIAL<br>(grams) | (26)<br>SOURCE<br>MATERIAL<br>(pounds) | (27)<br>DISPOSABLE<br>CONTAINER<br>WEIGHT<br>(pounds) | (28)<br>DISPOSABLE<br>CONTAINER<br>VOLUME<br>(Cu Ft) | (29)<br>CONTAINER<br>TYPE | (30<br>RADIATION<br>CONTAINER<br>SURFACE<br>LUMR/HR<br>DERZHR | LEVELS | (DP      | (31)<br>FAMINATION<br>DNTAINER<br>SURFACE<br>M/100cm2)<br>Beta Gamma | (32)<br>DOT<br>SUB TYPE<br>(A1 A2<br>LSA etc) | (33)<br>FISSILE<br>CLASS | (34)<br>LABELS/<br>MARKINGS<br>USED |
|-------------------------------------|---|---------------------------------------|--|--|---|------------------------------|--------------------------------|----------------------|-------------|---|--|---|--|---------------------------|---|--------|----------|--|---|--------------------------|-------------------------------------|
| 127                                 | U238  | N/A_                                  |  | Solid  |   |                              | , <u>A</u>                     | Ų                    | <u> </u>    | N/A   | 0.1                                    | 5272  | 65   | Stc                       | .032  | 917    | KMDA     | <b>MDA</b>   | LSA   | N/A_                     | Radioactive— LSA                    |
|                                     | TH232   |                                       | .004   |  |   |                              |                                |                      |             | <u> </u>  |  | ···   |  |                           |   |        |          | ·  | ļ   |                          | Radioactive-                        |
| 128                                 | U238  |                                       | .0028  |  |   | <b>S</b> 日 日                 |                                |                      |             | ļļ  | 0.1                                    | 5192  | 65   | Stc                       | .034  | 015    | KMDA     |  | LSA_  | N/A                      | Radioactive— LSA                    |
|                                     | TH232   |                                       | .004   |  |   | D BB BB                      |                                |                      |             | <del>                                     </del>  |  |   |  |                           |   |        |          | ,  | <del></del>                                   | ļ                        | Radioactive—                        |
| 129                                 | U238  |                                       | .0028  |  | IDE   | ATED<br>RUBI                 | '\                             |                      |             |   | 0.1                                    | 5324  | 65   | Stc                       | .040  | 014    | AGM      | <b>SMDA</b>  | LSA_  | N/A_                     | Radioactive— I.S.A                  |
|                                     | TH232   |                                       | .004   |  |   |                              |                                |                      |             |   |  |   |  |                           |   |        |          |  |   | ļ                        | Radioactive—                        |
| 130                                 | U238  |                                       | .0028  |  | Xo  | TAMII<br>LDING               |                                |                      |             |   | 0.1                                    | 5120  | 65   | Stc                       | .046  | .014   | KMDA     | \MDA   | LSA   | N/A_                     | Radioactive- LSA                    |
|                                     | TH232   |                                       | .004   |  | Ţ   | LD                           | _                              |                      |             |   |  |   |  |                           |   |        |          |  |   |                          | Radioactive—                        |
| 132                                 | U238  |                                       | .0028  |  | [-]   | LA LI                        |                                |                      |             | <u> </u>  | 0.1                                    | 5310  | 65   | Stc                       | .028  | 012    | KMDA     | <u>SMDA</u>  | L.S.A   | N/A                      | Radioactive— LSA                    |
|                                     | TH232   | <u> </u>                              | .004   | ļ  | Σ   | O E E                        | \\/_                           |                      |             | <b>V</b>  |  |   |  |                           |   |        | ļ        |  | ļ   |                          | Radioactive—                        |
|                                     |   |                                       |  | <u> </u>   |   |                              |                                |                      |             |   |  |   |  |                           |   |        |          |  |   |                          | Radioactive—                        |
|                                     |   |                                       |  |  |   |                              |                                |                      | <del></del> |   |  |   |  |                           |   |        |          |  |   |                          | Radioactive—                        |
|                                     |   |                                       |  |  |   |                              |                                |                      |             |   |  |   |  |                           |   |        |          |  |   |                          | Radioactive—                        |
|                                     |   |                                       |  |  |   |                              |                                |                      |             |   |  |   |  |                           |   |        | 1        |  |   |                          | Radioactive—                        |
|                                     |   |                                       |  |  |   | -                            |                                |                      |             |   |  | <u> </u>  |  |                           |   |        |          |  |   |                          | Radioactive—                        |
|                                     |   |                                       |  |  |   |                              |                                |                      |             |   |  |   |  |                           |   |        |          |  |   |                          | Radioactive—                        |
|                                     |   |                                       |  |  |   |                              |                                |                      |             |   |  |   |  |                           |   |        |          |  |   |                          | Radioactive—                        |
|                                     |   |                                       |  |  |   |                              |                                |                      |             |   |  |   |  |                           |   |        |          |  |   |                          | Radioactive—                        |
|                                     |   |                                       |  |  |   |                              |                                |                      |             |   |  |   |  |                           |   |        |          |  |   |                          | Radioactive—                        |
|                                     |   |                                       |  | 1  |   |                              |                                |                      |             |   |  |   |  |                           |   |        |          |  |   |                          | Radioactive—                        |
|                                     |   |                                       | <b></b>  |  |   |                              |                                |                      |             |   |  |   | 1  |                           |   |        |          |  |   |                          | Radioactive—                        |
|                                     |   |                                       |  |  |   |                              |                                |                      |             |   |  |   |  |                           |   |        |          | <br>   |   |                          | Radioactive—                        |
|                                     |   |                                       |  |  |   |                              |                                |                      |             |   |  |   |  |                           |   |        |          |  |   |                          | Radioactive—                        |
|                                     |   |                                       |  |  |   |                              |                                |                      |             | ļ   |  |   |  | <b>†</b>                  |   |        |          | 1  |   |                          | Radioactive—                        |
|                                     |   |                                       |  |  | -   |                              |                                | <u> </u>             |             |   |  |   |  |                           |   |        |          |  | 1   | <del> </del> -           | Radioactive—                        |
| -                                   |   |                                       |  |  |   |                              |                                |                      |             |   |  |   |  | <u> </u>                  |   |        |          |  | 1   | <del> </del>             | Radioactive—                        |
|                                     |   |                                       |  |  |   |                              |                                | <del> </del>         |             |   |  |   |  |                           |   | 1      | <u> </u> |  |   |                          | Radioactive—                        |
|                                     |   |                                       |  | <del>                                     </del> |   |                              |                                | <b></b>              |             |   |  |   |  |                           |   |        | T        |  |   | 1                        | Radioactive—                        |
|                                     |   |                                       | <del> </del>                                   |  |   |                              | <del>-   -</del>               |                      |             |   |  |   | <u> </u>   |                           |   |        |          |  |   |                          | Radioactive—                        |
|                                     |   | <b></b>                               | <u> </u>                                       | <u> </u>   |   |                              |                                |                      |             |   |  |   | T  | <u> </u>                  |   |        |          |  |   |                          | Radioactive—                        |
|                                     |   | <del>-</del>                          |  |  | L   | PAGE TOTALS                  |                                | <del></del>          |             |   | 0.5                                    | 26218   | 325  | <b>†</b>                  | <del></del>   | †      | 1        | l. <u></u> .   |   | <del>1</del>             | <u> </u>                            |

Form No CNS 201 (9-83)

Form RHA-CT (5/80)

#### SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL Radioactive Waste Shipment Certification Form

General Instructions and Information: This is a two part form to be used by shippers and carriers of radioactive waste. The certifications contained herein satisfy the requirements of Section 13-7-150, of Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act. This certification along with a copy of the prior notification form shall accompany each shipment of radioactive waste into and within the State of South Carolina. The shipper is to complete his portion of the form and present it to the carrier as part of the shipping documents. Upon receipt, the carrier shall complete his portion of the form. Upon delivery of the shipment to the consignee, a copy of this certification form, and a copy of the Prior Notification and Manifest form with the consignee acknowledgement, shall be returned to the Department.

| the Department.                 |  |
|---------------------------------|--|
| Part I:                         | Shipper's Certificate of Compliance                          |
| 1. Name of Shipper and Address: | 2. Shipment Identification No.                               |
| Umetco Minerals Corporation     | 0884-325A  |
| 137 - 47th Street               | Port No.   |
| Niagara Falls, NY 14302         | 3. Transport Permit No.                                      |
| malambana No. (716 ) 278-3361   | 0211-31-84-X   |
|                                 | 1000 the South Carolina Radioactive Waste Transportation and |

In compliance with Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act, I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the above-named shipper has complied with all provisions of Act No. 499 of 1980, and all applicable laws and administrative rules and regulations, both State and Federal, regarding the packaging, transportation, storage, disposal and delivery of such wastes. I further certify that this shipment of radioactive waste has been inspected within 48 hours of the time of departure and that no items of non-compliance with applicable laws, rules or regulations were found.

| Date | August | 22, | 1984 |
|------|--------|-----|------|
|      |        |     |      |

G.E. Walck, Construction Superintendent

Signature

| Typed Name and Title of Agent of Shipper                                  | Signature                                 |
|---|---|
| Part II: Carrie   | er's Certification                        |
| 1. Name of Carrier and Address:   | 2. Shipment Identification No.            |
| Tri-State Motor Transit Company   | 0884-325A                                 |
| P.O. Box 113 Joplin, Missouri 64801                                       | 3. Transport Trailer No. 448132           |
| Telephone No. (800) 641-7591  4. Scheduled Date of Departure of Shipment: | 5. Estimated Date of Arrival of Shipment. |
| August 22, 1984   | August 24, 1984                           |

Certification is hereby made to the South Carolina Department of Health and Environmental Control that: (a) the shipper has provided the carrier with a copy of the shipment manifest, the certificate of compliance, and the routing instructions; (b) the shipment of radioactive waste has been properly placarded for transport according to applicable U.S. Department of Transportation Regulations; (c) all shipping papers originated or reproduced by the carrier have been properly executed; (d) the transport vehicle has been inspected according to applicable State and Federal regulations within the prescribed intervals and that all safety and operational components are in good working order and meet the requirements of regulations; (e) all drivers who will operate the vehicle within the State of South Carolina are qualified to transport hazardous materials as specified by applicable U.S. Department of Transportation regulations; (f) the Department shall be immediately notified of any variance, occuring after departure, from the shipper's notification of primary routes in South Carolina and estimated date of arrival; (g) all applicable laws and administrative rules and regulations, both State and Federal, regarding the transportation of radioactive wastes will be complied with.

| Date    | August 22, 1984          |           |
|---------|--------------------------|-----------|
|         |                          | Signature |
| Tymed o | r Printed Name and Title | Signature |

DHEC 803 (5/80)

(Copies of this form may be reproduced locally as needed)

Shipment Number 615-3004

655872 Carrier's No \_

#### Tri-State Motor Transit Company

Name of Carrier

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading

UMETCO MINERALS CORPORATION **METAUS\_DIVISION** 

-UNION:CARBIDE-CORPORATIONX

#### AT Marientaxohiox

August 22 ,19 84 From

Niagara Falls, NY For use via carrier truck under the exclusive sole use shipments/movements

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked consigned, and destined as indicated below which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official Southern. Western and Illinois Freight Classifications in effect on the date hereof if this is a rail or a rail water shipment, or (2) in the applicable motor carrier classification or tariff if this is a notor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

| CHEM   | NUCLEAR SYSTEMS, INC.   | ለጥ ፑልሮ፣፣፣ጥ፣                        |                          | SHIPPERS OF      | RDER NO                                | CUSTOMER'S ORDER NO  |
|--|---|------------------------------------|--------------------------|------------------|--|--|
|  | Eravanx BARNWELL (Osborn Road)  |                                    |                          | lina             | V(355                                  | TOSE BARNWELL  |
|  |   | State Golorados                    | J. Oalo                  |                  | County                                 | Hose Brackwall   |
|  |   | <br>Car or                         | 8218                     |                  | 448132                                 | Seal acora   |
| Delivering (                                   | Carrier Tri-State Motor Transit   | Vehicle Initials                   |                          | No               |  | Seal 262504  |
| No<br>Packages                                 | Kind of Package, Description of Articles,<br>Special marks, and Exceptions  | *Weight<br>(Sub to<br>correction)  | ‡Class or<br>Rate        | Check<br>Column  | of applicables shipment is consigned.  | o Section 7 of Conditions<br>le bill of lading if this<br>is to be delivered to the<br>without recourse on the |
| 5  | Radioactive Materials, LSA, nos (325 cu. ft.)   |                                    |                          |                  | j the following                        | •  |
|  | Rādīōāčtīvē≱MātēfiālĶ®Nº2982-   |                                    |                          |                  | ery of thi                             | er shall not make deliv<br>s shipment without pay<br>eight and all other lawful                                |
|  | U <u>z Natural <b>x</b></u>   | 1                                  |                          |                  | charges                                |  |
|  | Uranium/Tkhoriumt Residues ((Fromt@hemical)Ptrocessing)   | K.                                 |                          |                  | (Sigi                                  | nature of consignor )  |
|  | 0.0016 Maxx Cumesaper Package Less than one (1  | ) pound sou                        | rce                      |                  |  | Care Fros bet prepaid WriteX   |
|  | material - solid, metal oxide, contam   | inated soil                        | ,                        |                  |  | res. 1865 Prepaid<br>Party   |
|  | building rubble, wood and plant equip   | ment.                              |                          |                  | :<br>XPREPNU                           | (See Below)*   |
|  |   |                                    | 1                        |                  | -                                      |  |
|  | This is to certify that the above named materials are proper marked and labeled, and are in proper condition for transportations of the Department of Transportation  | ortation according                 | ribed, pac<br>to the app | kaged<br>licable | to apply in                            | prepayment of the charges<br>erty described hereon   |
|  | Signed Alo E.   | Walk                               | 8-22                     | .84              | A                                      | gent or Cashier  |
|  | 7   |                                    |                          |                  |  |  |
|  | Vehicle assigned for sole use of consignor. Do not load o transfer in route and do not break the seal on truck  | ther freight on th                 | e vehicle                | do not           | only the am                            | nature here acknowledges<br>ount prepaid )   |
|  |   |                                    |                          |                  | 1                                      | Tharges advanced   |
|  |   |                                    |                          |                  | <u>s´</u>                              |  |
|  | Carrier hereby acknowledges that prior to or at the tir<br>transportation, the shipper provided or affixed according<br>required placards or orange panels (including prescribed<br>hazardous material named hereon | ng to applicable identification nu | regulation<br>(mbers) fo | ns, the          | Correct weig<br>Subject to ve<br>*L.G. | nent is correctly described  ht is lbs  rification by the  Evans  o Minerals Corp.                             |
|  | Signed Blr  | Deocess                            | car                      | -/3-             | P 0                                    | Box 97   |
|  |   |                                    |                          | //<br>           | L                                      | ra Falls, NY 1430  |
|  |   |                                    |                          |                  | <u> </u>                               |  |
| The agreed or o                                | declared value of the property is hereby specifically stated by the shipper to be not exceed  | ding                               |                          |                  | per                                    | <u> </u>   |
|  | ZMETAĽS DÍVISIONX  JUNION CARBIDE.CORPORATIONX  Umetco Mine  Shipper  | rals Corpor                        | ation                    | . <u>-</u>       | ·                                      | Agent  |
| Per Permanent posts address of shipp UC 326-34 | Malled 8-10-84  | Per                                |                          |                  |  | <u> </u>   |

Form RHA-PNC (5/80)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTRL Radioactive Waste Shipment Prior Notification and Manifest Form

|      |  |  | for Instructions   |  |
|------|--|--|--|--|
|      | 1. Name and Address of Shipper   |  | 2. Person Res  | sponsible for Radioactive  |
|      | Umetco Minerals Corpora  | ation  | Waste Ship   | pment  |
|      | 137 47th Street  |  | (a) Name   | G. E. Walck  |
|      | Niagara Falls, NY 1430   | 12   | (b) Title  | Construction Superintende  |
|      | 3. Radioactive Waste Transport Pe  |  | 4. Shipment  | Identification No.   |
|      | 0211-31-84-X   |  | •  | 0884-325A  |
|      | 5. Location from which waste will  | he shipped   | 6. Name and A  | Address of Consignee   |
|      | 5. Mcation from which waste will   | be shipped   |  | clear Systems, Inc.  |
|      | Same as (1) Above  |  | D O Ro   | v 726 -  |
|      |  |  | Barnwel  | South Carolina 29812 Date of Arrival of Shipment   |
|      | 7. Scheduled Date of Departure of August 22, 1984  | Shipment   |  | ust 24, 1984   |
|      | 9. Carrier   | 10. Type of T  | ransport Vehicle   | ll. Trailer No. and Owner  |
|      | Tri-State Motor Transit  | Clos   | ed Van   | (if available)   |
|      | 12. Routes shipment will follow i  | l .  |  | pecific)   |
|      |  |  |  |  |
|      | I-20, I-26, U  | US-321, S.C  | . 3 and S.C.   | 64   |
|      |  | Manıfest   |  |  |
|      | 13 Type Container or Cask  | 14 Contair   | ner Spec   | 15. Total No. of Containers  |
|      | Wood Boxes   | CFR 49   | 173.392 (c)  | 6  |
|      | 16 Waste Description, Physical a   | shilo2 be  |  | t Radionuclides  |
| a 1  | 16 Waste Description, Physical a Chemical Form Contaminate Oxides, Bldg. Rubble, Woo   | nd and   | 1  | m (Nat.) .0028   |
| nt   | Hardward   | ou una   | Thoriu   | m (Nat.) .004  |
| 11 6 | 18. Total Curies (m.C.)  | 19. Transpor   | t Group  | 20. Total Cubic Feet   |
|      | .068   | III  |  | 325  |
| )    | 21 Waste Classification  M Radioactive LSA [] Bulk LS  | SA .   | Normal Form  | Special Form Fissile   |
|      | M Radioactive LSA [] Bulk LS [] Radioactive LSA [] Limited   | d quantities<br>dioactive  | Normal Form [] Type A quantity [] Type B quantity [] Large quantity  | [] Type A quantity [] Class I<br>[] Type B quantity [] Class II  |
|      | MR Radioactive LSA [] Bulk LS [] Radioactive LSA [] Limited greater than and rad devices   | d quantities<br>dioactive<br>s<br>CERTIF   | [] Type A quantity<br>[] Type B quantity<br>[] Large quantity<br>ICATION   | [] Type A quantity [] Class I<br>[] Type B quantity [] Class II<br>[] Large quantity [] Class III  |
| 2    | MR Radioactive LSA [] Bulk LS [] Radioactive LSA [] Limited greater than and rad devices   | CERTIF  e above-named the information he shipper has arolina Radioarion Supt.  | [] Type A quantity [] Type B quantity [] Large quantity  ICATION  shipper to the Sou provided herein i complied with all ctive Waste Transp  | [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III  th Carolina Department of Health s complete and correct to the the provisions as required by  |
| )    | Radioactive LSA [] Bulk LS [] Radioactive LSA [] Limited greater than and rad devices  I hereby certify on behalf of the and Environmental Control that the best of my knowledge, and that the Act No 499 of 1980, the South Capate August 8, 1984   | CERTIF  e above-named the information he shipper has arolina Radioa  | [] Type A quantity [] Type B quantity [] Large quantity  ICATION  shipper to the Sou provided herein i complied with all ctive Waste Transp  | [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III  the Carolina Department of Health as complete and correct to the the provisions as required by cortation and Disposal Act   |
| 2    | M Radioactive LSA [] Bulk LS [] Radioactive LSA [] Limited greater than and rad devices.  I hereby certify on behalf of the and Environmental Control that the best of my knowledge, and that the Act No 499 of 1980, the South Canada August 8, 1984  G E. Walck - Construct Typed Name and Title of Agent of   | CERTIF  c above-named the information he shipper has arolina Radioactive to the consigner of the consigner arolina consi | [] Type A quantity [] Type B quantity [] Large quantity  ICATION  shipper to the Sour provided herein in complied with all ctive Waste Transpositive Waste Transpositi | [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III  (the Carolina Department of Health is complete and correct to the interpretation and Disposal Act  (G. E. Walck)  |
| 2    | M Radioactive LSA [] Bulk LS [] Radioactive LSA [] Limited greater than and rad devices.  I hereby certify on behalf of the and Environmental Control that the best of my knowledge, and that the Act No 499 of 1980, the South Canada August 8, 1984  G E. Walck - Construct Typed Name and Title of Agent of   | CERTIF  e above-named the information he shipper has arolina Radioarion Supt.  Shipper  CONSIGNEE AC   | [] Type A quantity [] Type B quantity [] Large quantity  ICATION  shipper to the Sou provided herein i complied with all ctive Waste Transp  KNOWLEDGEMENT  artment of Health  | [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III  th Carolina Department of Health as complete and correct to the the provisions as required by cortation and Disposal Act  |
|      | Radioactive LSA [] Bulk LS [] Radioactive LSA [] Limited greater than and rac devices.  I hereby certify on behalf of the and Environmental Control that the best of my knowledge, and that the Act No 499 of 1980, the South Control that the Act No 499 of 1980, t | CERTIF  e above-named the information he shipper has arolina Radioarion Supt.  Shipper  CONSIGNEE AC   | [] Type A quantity [] Type B quantity [] Large quantity  ICATION  shipper to the Sou provided herein i complied with all ctive Waste Transp  Signature (  KNOWLEDGEMENT  artment of Health ent was received.   | [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III  (the Carolina Department of Health is complete and correct to the interpretation and Disposal Act  (G. E. Walck)  |
|      | M Radioactive LSA [] Bulk LS [] Radioactive LSA [] Limited greater than and rad and radioactive A quantities devices.  I hereby certify on behalf of the and Environmental Control that the best of my knowledge, and that the Act No 499 of 1980, the South Canal Date August 8, 1984  G E. Walck - Construct Typed Name and Title of Agent of This acknowledges to the South the above-described radioacti   | CERTIF  e above-named the information he shipper has arolina Radioarion Supt.  Shipper  CONSIGNEE AC   | [] Type A quantity [] Type B quantity [] Large quantity  ICATION  shipper to the Sou provided herein is complied with all ctive Waste Transport (Signature (MINOWLEDGEMENT)  artment of Health ent was received.  Signature of Agent   | [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III  [] Class III  [] Class III  [] Charled the complete and correct to the complete and correct to the complete and Disposal Act  [] Class III  [] Clas |

Original: S. Carolina (Copies of this form may be reproduced locally as needed)

Copy:

UN

Chem-Nuclear

Form RHA-PNC (5/80)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTRL Radioactive Waste Shipment Prior Notification and Manifest Form

| <u>.</u> |  |   |   |  |
|----------|--|---|---|--|
| 4        | l. Name and Address of Shipper   | icterbe bate  | for Instructions 2. Person Res  | sponsible for Radioactive  |
|          | Umetco Minerals Corpora  | ation   | Waste Ship  | oment  |
|          | 137 47th Street  |   | (a) Name  | G. E. Walck  |
|          |  | 12  | (b) Title   | Construction Superintende  |
| -        | Niagara Falls, NY 1430   |   |   | hone No (7]6) 278-336  Identification No.:   |
| 3        | 3. Radioactive Waste Transport Pe  | rmit No   | 4. Shipment.  |  |
|          | 0211-31-84-X   |   |   | 0884-325A  |
|          | 5. Location from which waste will  | be shipped  |   | Address of Consignee   |
|          | C /3\ Aboue  |   | Chem-Nu   | clear Systems, Inc.  |
|          | Same as (1) Above  |   | P.O. Bo   | X /26<br>1 South Carolina 29812  |
| 7        | 7. Scheduled Date of Departure of  | Shipment  | 8. Estimated  | 1 South Carolina 29812<br>Date of Arrival of Shipment  |
|          | August 22, 1984  | _   |   | ust 24, 1984   |
| -        |  | 7.50  | <u> </u>  |  |
| ç        | 9. Carrier   |   | Transport Vehicle   | 11 Trailer No. and Owner (if available)  |
| Τ        | ri-State Motor Transit   | į Clos  | ed Van  | · · · · · · · · · · · · · · · · · · ·  |
| :        | 12. Routes shipment will follow i  | n State of Sou  | th Carolina (Be S   | pecific)   |
|          | •  |   |   |  |
|          | I-20 I-26. I   | IS-321. S.C   | . 3 and S.C.  | 64   |
|          | 1-20, 1-20,  |   |   |  |
| -        |  | Manifest  | Summary   |  |
| 7        | 13 Type Container or Cask  | 14 Contair  |   | 15. Total No. of Containers  |
| •        |  | 0=D 40  | 172 202 (-)   | <b>F</b>   |
|          | Wood Boxes   |   | 173.392 (c)   | t Radionuclides  |
|          | 16 Waste Description, Physical a<br>Chemical Form Contaminati<br>Oxides, Bldg. Rubble, Woo   | nd<br>Shilo2 ha   |   |  |
| 1        | Ovides Rida Rubble, Woo  | nd and  |   | : : : : : : : : : : : : : : : : : : :  |
| ÷        | Hardward   | 0 4 4   | Inoriu  | m (Nat.) .004  |
| ٠.       | 18. Total Curies   | 19 Transpor   | rt Group  | 20. Total Cubic Feet   |
|          | .068   | III   |   | 325  |
|          | 21. Waste Classification  M Radioactive LSA [] Bulk LS   |   | Normal Form   | Special Form Fissile   |
|          | M Radioactive LSA [] Bulk LS [] Radioactive LSA [] Limited   | i quantities<br>Nioactive   | Normal Form [] Type A quantity [] Type B quantity [] Large quantity   | [] Type A quantity [] Class I<br>[] Type B quantity [] Class II  |
|          | M Radioactive LSA [] Bulk LS<br>[] Radioactive LSA [] Limited<br>greater than and rad  | d quantities<br>dioactive<br>s  | [] Type A quantity<br>[] Type B quantity<br>[] Large quantity   | [] Type A quantity [] Class I<br>[] Type B quantity [] Class II  |
| ,        | M Radioactive LSA [] Bulk LS [] Radioactive LSA [] Limited and rad and rad devices   | d quantities<br>dioactive<br>s<br>CERTIF  | [] Type A quantity<br>[] Type B quantity<br>[] Large quantity<br>ICATION  | [] Type A quantity [] Class I<br>[] Type B quantity [] Class II<br>[] Large quantity [] Class II   |
|          | M Radioactive LSA [] Bulk IS [] Radioactive LSA [] Limited and rad devices  I hereby certify on behalf of the and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Capate August 8, 1984   | centification and continue to the continue to | [] Type A quantity [] Type B quantity [] Large quantity  ICATION  shipper to the Sou provided herein is complied with all ctive Waste Transp  | [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III  [] the Carolina Department of Health as complete and correct to the [] the provisions as required by cortation and Disposal Act   |
|          | M Radioactive LSA [] Bulk IS [] Radioactive LSA [] Limited greater than and rad Type A quantities devices  I hereby certify on behalf of the and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Co   | CERTIF  a above-named the information the shipper has arolina Radioa  | [] Type A quantity [] Type B quantity [] Large quantity  ICATION  shipper to the Sou provided herein i complied with all ctive Waste Transp   | [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III  oth Carolina Department of Health as complete and correct to the the provisions as required by cortation and Disposal Act   |
|          | M Radioactive LSA [] Bulk IS [] Radioactive LSA [] Limited and rad devices  I hereby certify on behalf of the and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Capate August 8, 1984   | CERTIF  a above-named the information the shipper has arolina Radioa  | [] Type A quantity [] Type B quantity [] Large quantity  ICATION  shipper to the Sou provided herein is complied with all ctive Waste Transp  | [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III  [] the Carolina Department of Health as complete and correct to the [] the provisions as required by cortation and Disposal Act   |
|          | M Radioactive LSA [] Bulk IS [] Radioactive LSA [] Limited greater than and rad devices  I hereby certify on behalf of the and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Control that the Act No. 499 of 1980, the Sout | CERTIF:  a above-named and information he shipper has arolina Radioard Shipper has arolina Radioard CONSIGNEE AC  | [] Type A quantity [] Type B quantity [] Large quantity  ICATION  shipper to the Sou provided herein in complied with all ctive Waste Transp  Signature  EXNOWLEDGEMENT                                       | [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III  [] the Carolina Department of Health as complete and correct to the [] the provisions as required by cortation and Disposal Act   |
|          | M Radioactive LSA [] Bulk IS [] Radioactive LSA [] Limited greater than and rad devices  I hereby certify on behalf of the and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Canada August 8, 1984  G. E. Walck - Construct Typed Name and Title of Agent of  | CERTIF:  a above-named and information he shipper has arolina Radioard Shipper has arolina Radioard CONSIGNEE AC  | [] Type A quantity [] Type B quantity [] Large quantity  ICATION  shipper to the Sou provided herein is complied with all ctive Waste Transport of Waste Transport of Health went was received                | [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III  [] the Carolina Department of Health as complete and correct to the [] the provisions as required by cortation and Disposal Act  [] Allala [] G. E. Walck                       |
|          | M Radioactive LSA [] Bulk IS [] Radioactive LSA [] Limited greater than and rad devices  I hereby certify on behalf of the and Environmental Control that the best of my knowledge, and that the Act No. 499 of 1980, the South Canal Control that the Act No. 499 of 1980, the South Control that the Act No. 499 of 1980, the South Control that the Act No. 499 of 1980, the South Control that the Act No. 499 of 1980, the South Control that the Act No. 499 of 1980, the South Control that the Act No. 499 of 1980, the South Control that the Act No. 499 of 1980, the South Control that No. 499 of 1980, the South Control that the Act No. 499 of 1980 | CERTIF:  a above-named and information he shipper has arolina Radioard Shipper has arolina Radioard CONSIGNEE AC  | [] Type A quantity [] Type B quantity [] Large quantity  ICATION  shipper to the Sou provided herein is complied with all ctive Waste Transport of Health was received  Signature of Health went was received | [] Type A quantity [] Class I [] Type B quantity [] Class II [] Large quantity [] Class III  [] the Carolina Department of Health as complete and correct to the [] the provisions as required by cortation and Disposal Act  [] G. E. Walck  and Environmental Control that |

DHEC 802

S. Carolina (Copies of this form may be reproduced locally as needed)

Original S. Carolina (Co Copy: Chem-Nuclear

UN

#### 3.0 AT DESTINATION (Union Carbide Corporation, Uravan, Colorado)

- 3.1 Give notification of arrival and receive guidance to unloading site.
- 3.2 Examine security seals and inspect outside of truck for damage or pilfering.
- 3.3 The shipment must be unloaded by Consignor from the transport vehicle in which originally loaded.
- 3.4 UCC or its representative will certify vehicles clean and available for Unrestricted Use and decontaminate if necessary.

#### 4.0 PENALTY

4.1 Any deviation from these instructions or violations of State and Federal laws could result in carrier penalty.

Driver's Signature

8-22-84

Date

Form RHA-PNC (5/80)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTRL Radioactive Waste Shipment Prior Notification and Manifest Form

|        |  | Reverse Side  | for Instructions   |                                 |
|--------|--|---------------|--|---------------------------------|
| Metal  | 1. Name and Address of Shipper:  |               | 2. Person Responsible for Radioactive  |                                 |
|        | Umetco Minerals Corporation  |               | Waste Shipment (a) Name G. E. Walck  |                                 |
|        | 137 47th Street  |               | (b) Title  | Construction Superintendent     |
|        | Niagara Falls, NY 14302  |               | (c) Telephone No. (/(b) 2/8-336)   |                                 |
|        | 3. Radioactive Waste Transport Permit No   |               | 4 Shipment Identification No.:   |                                 |
|        | 0211-31-84-X   |               | 0884-325A  |                                 |
|        | 5. Location from which waste will be shipped   |               | 6. Name and Address of Consignee   |                                 |
|        | Same as (1) Above  |               | Chem-Nuclear Systems, Inc.<br>P.O. Box 726<br>Barnwell, South Carolina 29812 |                                 |
|        | 7. Scheduled Date of Departure of Shipment August 22, 1984   |               | 8. Estimated Date of Arrival of Shipment August 24, 1984                     |                                 |
|        | 9. Carrier   | 10. Type of T | ransport Vehicle   | 11 Trailer No. and Owner        |
|        | Trı-State Motor Transit  | Clos          | ed Van   | (if available)                  |
|        | 12 Routes shipment will follow in State of Sour  |               | th Carolina (Be Specific)  |                                 |
|        | I-20, I-26, US-321, S.C. 3 and S.C. 64   |               |  |                                 |
|        |  | Manıfest      | Summary  |                                 |
|        | 13 Type Container or Cask  | 14 Contain    | er Spec.   | 15. Total No. of Containers     |
|        | Wood Boxes   |               | 173.392 (c)  | 6                               |
|        | 16 Waste Description, Physical a Chemical Form Contaminat  | and Solids    |  | t Radionuclides                 |
|        | Oxides, Bidg. Rubble, Wood and   |               |  | m (Nat.) .0028<br>m (Nat.) .004 |
|        | Hardward   |               | <u> </u>   | m (Nat.) .004                   |
|        | 18 Total Curies (AG)   | 19 Transpor   | et Group   | 325                             |
| UN2912 | greater than and radioactive   |               | Normal Form [] Type A quantity [] Type B quantity [] Large quantity          | [] Type B quantity [] Class II  |
|        | CERTIFICATION  |               |  |                                 |
|        | I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the information provided herein is complete and correct to the best of my knowledge, and that the shipper has complied with all the provisions as required by Act No 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act |               |  |                                 |
|        | Date August 8, 1984  |               | 1  | Sin 1                           |
|        | o E 4 let Construction Sunt  |               |  |                                 |
|        | G E. Walck - Construction Supt.  Typed Name and Title of Agent of Shipper  Signature (G. E. Walck)   |               |  |                                 |
|        | CONSIGNEE ACKNOWLEDGEMENT  |               |  |                                 |
|        | This acknowledges to the South Carolina Department of Health and Environmental Control that the above-described radioactive waste shipment was received.   |               |  |                                 |
|        | Date of Delivery   |               | Signature of Agent   | f Consignee or authorized       |
|        |  |               |  |                                 |

DHEC 802 (5/80)

Original: S. Carolina (Copies of this form may be reproduced locally as needed)

Copy:

Chem-Nuclear